| | of Claims |
|--|-----------|
| | |

| | Α | p | p | lic | a | ti | 0 | n | C | 0 | n | tr | 0 | ı | N | 0 | ١. |
|--|---|---|---|-----|---|----|---|---|---|---|---|----|---|---|---|---|----|
|--|---|---|---|-----|---|----|---|---|---|---|---|----|---|---|---|---|----|

10/735,209

Examiner

Thong Q. Nguyen

Applicant(s)/Patent under Reexamination

UMEMOTO ET AL.

Art Unit

2872

| → | Rejected |
|----------|----------|
| H | Allowed |

| _ | (Through numeral) Cancelled |
|-----|--------------------------------|
| ı — | |

Restricted

N Non-Elected

I Interference

| A | Appeal |
|---|----------|
| 0 | Objected |

| Cli | aim | | | | [| Date | е | | | \neg | - | Clai | m | | | | Di | ate | | | | ſ | Cla | aim | | - | | [| Date | ; | | | ٦ |
|-------------|------------------|--|----------------|---|--|-----------------|-------------------------------------|--------------|-----------------|--------------------|----------|--|------------|----------|----------|-------------------|----------|----------|--------------|----------|-----------------|-----|-------------|------------|----------|----------|----------|----------|-----------------|----------|----------|----------|----------|
| <u> </u> | $\overline{}$ | λ | | | | | | | П | \neg | | Ī | \neg | П | Т | Т | Ť | Ť | Т | П | \sqcap | ŀ | | | Т | Т | | ٦ | Ť | \neg | Т | Т | 7 |
| <u>_</u> | Original | 123/03 | | | | | | | | - 1 | - | <u>, </u> | Original | | | | | | | | | | | Original | | | į | | | | | | |
| Final | <u>:</u> <u></u> | 3 | | | | | | | | -1 | ۇ. | LIDA | <u>:</u> Ē | | - 1 | | | | | 1 1 | | | Final | <u>.</u> g | | | | | | | - | | |
| ш | ō | 13 | | | | | | | | - [| " | - | ŏ | | | | | | | | | | ш | ŏl | | | | | | | | ĺ | |
| | | <u> </u> | Щ | | <u> </u> | _ | | | $\vdash \vdash$ | \dashv | - | _ | | 4 | \dashv | _ | | 4 | - | \vdash | Ш | - } | | | _ | - | _ | _ | | _ | _ | - | 4 |
| | 1 | | | | _ | | _ | _ | L | _ | | | 51 | _ | | | \perp | | | \Box | Ш | ļ | | 101 | | _ | _ | | | _ | _ | _ _ | _ |
| | 1 | | | | | | | \perp | | | _ | | 52 | \perp | | | | | | Ш | Ш | Ļ | | 102 | \perp | | _ | | | \Box | | | |
| _ | 2 | | | | | | | | | \Box | | | 53 | | | | | | | | | L | | 103 | | | | | | | | | ╛ |
| | | | | | | | | | | | L_ | | 54 | | | | \perp | | l | \perp | | L | | 104 | | | | | | | | | ╝ |
| | 18 | | | | | | | | | | | | 55 | T | | | Т | | | | | | | 105 | | | | | | | | | ٦ |
| | 8 | | | | | | Π | | | \neg | | | 56 | 7 | | | 7 | T | | | | | | 106 | | T | | | | \neg | | | ٦ |
| | 7 | | | | | П | | | | \neg | | \neg | 57 | 寸 | \neg | | ┪ | \top | | \sqcap | | - [| | 107 | | \neg | | П | | | | | 7 |
| | 8 | | | | Г | П | T | Г | П | \neg | | | 58 | 7 | | _ | \top | ╅ | 1 | \vdash | П | - 1 | | 108 | _ | \dashv | _ | | П | 一 | \neg | _ | 7 |
| | 8 | | Н | | \vdash | \vdash | | | Н | \neg | | | 59 | \neg | \dashv | _ | $^{+}$ | \dashv | 1- | 1- | \vdash | ŀ | | 109 | | _ | \neg | | | 寸 | _ | _ | 7 |
| - | 10 | | \vdash | | \vdash | \vdash | | \vdash | \vdash | \dashv | - | | 60 | \neg | - | - | + | \dashv | +- | 1 | | ŀ | | 110 | 一 | - | \dashv | \dashv | | | 一十 | | ᅱ |
| | 31 | \vdash | Н | | | \vdash | \vdash | \vdash | \vdash | \dashv | \vdash | | 61 | \dashv | \dashv | + | + | | + | \vdash | Н | ŀ | \dashv | 111 | \dashv | \dashv | \dashv | H | \vdash | , | \dashv | + | \dashv |
| - | 12 | H | $\vdash\vdash$ | | \vdash | \vdash | \vdash | \vdash | $\vdash \vdash$ | \dashv | \vdash | \dashv | 62 | \dashv | \dashv | + | + | - - | +- | + | Н | - | \dashv | 112 | \dashv | - | - | \vdash | Н | \dashv | \dashv | + | \dashv |
| | | H | Н | _ | \vdash | \vdash | \vdash | \vdash | $\vdash \vdash$ | \dashv | \vdash | \dashv | | \dashv | \dashv | + | + | - - | + | + | Н | - | | | \dashv | -+ | \dashv | \vdash | \vdash | \dashv | \dashv | + | \dashv |
| | 13 | <u> </u> | | | <u> </u> | \vdash | - | \vdash | | | - | | 63 | -+ | \dashv | | + | + | + | ╁┤ | Н | - | | 113 | \dashv | \dashv | \dashv | \vdash | $\vdash\vdash$ | \dashv | \dashv | | \dashv |
| | 14 | <u> </u> | | | | | <u> </u> | \vdash | | \dashv | | - | 64 | \dashv | \dashv | + | + | + | + | \vdash | Н | ļ | | 114 | \dashv | \dashv | _ | Ш | Н | | + | - | \dashv |
| | 15 | _ | | | | | <u> </u> | _ | | _ | | - | 65 | | - | -+- | + | + | + | \vdash | Ш | | | 115 | - | - | _ | Щ | \sqcup | | _ | _ _ | |
| | 18 | <u> </u> | Щ | | | \vdash | _ | _ | \sqcup | _ | <u> </u> | | 66 | _ | \dashv | 4 | 4 | _ _ | _ | | \sqcup | ļ | | 116 | _ | _ | | Ш | Ш | _ | _ | \perp | 4 |
| | 17 | _ | | | | | | | Ш | | | 1 | 67 | | \perp | \perp | _ | | | | | ļ | | 117 | | | _ | | Ш | _ | | | _ |
| | 18 | | | | | | | | | | | | 68 | | \perp | | \perp | | | | | Į | | 118 | | | | | | | | | ╝ |
| | 19 | | | | | | | | | | | | 69 | | | | | | | | | l | | 119 | \perp | | | | | | | | ╝ |
| | 20 | | | | | | | | | | | | 70 | | | | | | | | 1 | | | 120 | | | | | | | | | ╝ |
| | 21 | | | | | | | | | | | | 71 | | Т | \neg | Т | | Т | | | | | 121 | | | | | | | | | ٦ |
| | 22 | | | | | | | | | | | | 72 | \neg | \neg | | \neg | _ _ | Τ | | | Ī | | 122 | | | | | | | \neg | | ٦ |
| | 23 | | | | | | Г | | П | | | . | 73 | | | | \top | \neg | T | | | Ī | | 123 | \neg | \neg | | | | | | | ٦ |
| | 24 | | | | | | Т | \Box | П | _ | | | 74 | \neg | \neg | \neg | \top | | 1 | | | İ | | 124 | ヿ | _ | | | | | | \neg | ヿ |
| | 25 | | П | | | | T | 1 | i | _ | - | 1 | 75 | T | \neg | 十 | \top | \top | 1 | 1 | | ı | | 125 | | \dashv | | _ | | _ | 十 | \neg | ヿ |
| -1 | 26 | 2 | | | | - | | | Н | \neg | | 一 | 76 | 一 | -+ | _ | _ | | + | + | | ŀ | | 126 | - | \dashv | | | Н | | \dashv | _ | ᅱ |
| 2 | 27 | = | | | | - | \vdash | | Н | \neg | _ | | 77 | | _ | _ | 十 | | ╁ | + | | ŀ | | 127 | | 寸 | | | Н | \neg | _ | _ | ᅱ |
| 3 | 28 | = | | _ | _ | | \vdash | | Н | | - | | 78 | 7 | \dashv | \dashv | \dashv | | ┪ | + | \vdash | ŀ | | 128 | | \dashv | | | _ | | | _ | ᅱ |
| 4 | 29 | = | \vdash | _ | | - | \vdash | ├ | Н | \dashv | - | | 79 | - | | | + | - | + | + | \vdash | ŀ | | 129 | -+ | \dashv | | | | \dashv | \dashv | \dashv | \dashv |
| 5 | 30 | | · | | | | ├ | | Н | \dashv | - | | 80 | | + | \dashv | + | | + | + | \vdash | ŀ | | 130 | -+ | \dashv | | | _ | | 一 | | \dashv |
| | | = | | | | | — | | | \dashv | | | | - | \dashv | \dashv | + | | ┥— | ╁ | Н | ŀ | | | -+ | \dashv | | | Н | | -+ | - | \dashv |
| 6 | 31 | = | Н | | | \vdash | H | | | \dashv | \vdash | \dashv | 81 | - | \dashv | | - - | + | +- | | Н | - } | | 131 | \dashv | -+ | | | \vdash | | \dashv | + | \dashv |
| 7 | 32 | = | | | <u> </u> | | <u> </u> | \vdash | $\vdash \vdash$ | | - | \dashv | 82 | \dashv | + | + | + | - | ╀ | \vdash | Н | - | | 132 | \dashv | -+ | | | | | -+ | + | - |
| 8 | 33 | ς | Ш | _ | <u> </u> | $\vdash \vdash$ | | | Н | 4 | \vdash | - | 83 | | + | + | + | | + | 1— | Н | | | 133 | \dashv | 4 | | - | $\vdash \vdash$ | | -+ | + | \dashv |
| 9 | 34 | = | \Box | | L | \vdash | <u> </u> | \vdash | - | _ | \vdash | _ | 84 | _ | _ | - | - | _ | +- | | Н | ļ | | 134 | 4 | -+ | _ | Щ | Ш | \dashv | \dashv | + | ᅴ |
| 10 | 35 | Ξ | Ш | | L | \vdash | | Щ | | _ | <u> </u> | _ | 85 | _ | _ | 4 | - | | - | - | Ш | [| | 135 | 4 | 4 | _ | \vdash | Ш | \sqcup | 4 | _ | \dashv |
| 11 | 36 | Ξ | Ш | | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | | Ш | _ | \vdash | Щ. | 86 | | _ | \perp | _ | | ╀ | ļ | Ш | ļ | | 136 | | _ | | | | \sqcup | . | _ | _ |
| 12 | 37 | = | $oxed{oxed}$ | | L | | <u></u> | | Ш | _ | | _ | 87 | _ | _ļ | _ _ | _ | | _ | \perp | Ш | Į | | 137 | _ | \perp | | Ш | Ш | Ц | | \perp | _ |
| 13 | 38 | = | | | | | L | | | | | | 88 | | | | | | \perp | | | [| | 138 | \Box | | | | | | | | \Box |
| 14 | 39 | 11 | | | | | Ĺ | | | | | | 89 | | | \Box | | | ╧ | | | ſ | | 139 | | | | | \Box | | \Box | | |
| | 40 | | | | | | | | | | | J | 90 | | \Box | $\Box \mathbb{I}$ | \prod | \int | $oxed{oxed}$ | | | - [| | 140 | | | | | | | \Box | | ╝ |
| | 41 | | | | | | Γ | | | | | | 91 | _7 | | | | Т | T | | П | Ì | | 141 | _T | _T | | | | | | T | _] |
| | 42 | | | | П | | | Π | П | | | | 92 | \Box | | | | \top | T | | П | 1 | | 142 | \sqcap | | | | | | \Box | T | _1 |
| | 43 | | П | | | Г | Π | Г | П | | | \neg | 93 | \neg | | T | | | 7 | | П | Ì | | 143 | \neg | \neg | | | | | \sqcap | T | ٦ |
| | 44 | | Г | | | | | Г | П | \neg | | 7 | 94 | 丁 | 寸 | T | T | \top | \top | | П | 1 | | 144 | \neg | \neg | | | | | \neg | T | \neg |
| | 45 | | | | | | \vdash | Γ- | Ħ | \dashv | | _ | 95 | 7 | 十 | _ | _ | _ | \top | T | Н | Ì | | 145 | -1 | 7 | | П | | | 一 | \dashv | \dashv |
| | 46 | \vdash | Н | | | Н | T | ┢ | ┌ | \dashv | | _ | 96 | - | -+ | 十 | 十 | + | \top | \vdash | Н | ŀ | | 146 | _ | \dashv | | | | | 一 | \top | \dashv |
| | 47 | | Н | | | \vdash | \vdash | \vdash | \vdash | $\overline{\cdot}$ | - | \dashv | 97 | + | _ | \dashv | + | + | +- | + | Н | ł | | 147 | \dashv | 十 | _ | - | - | | 一 | \dashv | \dashv |
| | 48 | - | \vdash | _ | | \vdash | | ┢ | \vdash | \dashv | \vdash | \dashv | 98 | \dashv | \dashv | \dashv | + | -+- | +- | + | Н | ł | | 148 | \dashv | \dashv | _ | \vdash | \vdash | | \dashv | + | \dashv |
| | 49 | | Н | _ | | \vdash | \vdash | ╁ | \vdash | \dashv | - | + | 99 | \dashv | \dashv | + | + | + | ╁ | + | $\vdash\vdash$ | ŀ | _ | 149 | \dashv | \dashv | | H | - | \vdash | \dashv | + | \dashv |
| - | | | \vdash | - | | \vdash | - | | \vdash | \dashv | | -+ | 100 | - | \dashv | + | + | +- | + | ╁ | $\vdash \vdash$ | ŀ | | | | \dashv | | - | - | - | + | + | \dashv |
| | 50 | <u></u> | | | | | <u></u> | <u></u> | ш | $oxed{oxed}$ | L_ | 1 | 100 | | | | | L_ | | | Ш | l | | 150 | 1 | | | لـــا | | | | | ┚ |